

Att'y Ref. No. 003-066

U.S. App. No.: 10/625,468**Paragraph [0001]:**

[0001] The present invention relates to the field of conduction measurement techniques. It relates to a method for detecting partial conductor short circuits in a conductor including plural mutually insulated partial conductors, according to the preamble of claim 1. It furthermore relates to a device for performing the method and also an application of the method.

**Paragraph [0011]**

[0011] The object is attained by the totality of the features of claims 1, 7 and 11. The core-A principle of the invention consists in measuring on the conductor to be investigated the propagation behavior of time-varying electrical signals, and in comparing it with the propagation behavior of a reference conductor without partial conductor short circuits, and to draw conclusions as to the presence of partial conductor short circuits from the changes in propagation behavior given by the comparison. It is hereby possible in a simple manner and without manipulations altering the conductor to be measured, to detect short circuits between optional partial conductors.

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